

IN THE CLAIMS:

Please cancel claims 2-4 and 6-10 from further consideration herein.

Please amend claims 1 and 5 as follows:

*A*

1. (Amended) [Method] A method for winding a stator [for] of a brushless direct current motor, [a)] which has a stator body (9) with a pre-determined number of to be wound stator teeth (3), [b)] wherein the stator 5 teeth (3) are respectively wound with two coils (W1, W3; W2, W4), which are magnetically coupled and which permit the generation of opposite magnetic fields by the supply of current with variable directional orientation, and [c)] wherein each of the two coils (W1, W3; W2, W4) comprises a predetermined number of conductors placed in parallel, [characterized in that d) the stator teeth (3) are each] 10 the method comprising the steps of:

simultaneously [wound,] each of the stator teeth (3) in several partial winding steps, with [two conductors (25, 27) or] an even number of  $2n$  conductors[, e) that one of the two conductors (25, 27) or]

allocating a first set of n [conductor] conductors of the  $2n$  conductors [of the one] to a first coil and [the other of the two conductors (25, 27) or] allocating the other set of n [conductor] conductors of the  $2n$  conductors [are allocated] to the other coil; and,

[f) that] performing a predetermined number of partial winding procedures [is performed] until the predetermined number of conductors per coil (W1, W3; W2, 25 W4) has been reached.

*A2*

5. (Amended) Stator for a brushless direct current motor, [a] which presents] the stator comprising:  
a stator body (9) with a pre-determined number  
of wound stator teeth (3), [b] wherein] the stator teeth  
5 (3) [are] being respectively wound with two coils (W1, W3;  
W2, W4) which are magnetically coupled and which  
facilitate by the supply of current of variable  
directional orientation the generation of [opposite]  
opposing magnetic fields[, and c) wherein] in said stator  
10 teeth;

each of the two coils (W1, W3, or W2, W4)  
[comprises] including a predetermined even number of [in  
parallel arranged] 2n conductors, [characterized in that  
d) two each conductors (25, 27) of which one conductor is  
15 allocated to the one coil and the other conductor to the  
other coil, or 2n conductors,] of which a first set of n  
[conductor is] conductors are allocated to a first one of  
the [one coil] two coils and the other n conductors are  
allocated to the other coil[, are] of the two coils; and,  
20 the 2n conductors being conducted over the  
stator teeth in a substantially constant position [vis-a-  
vis] relative to each other over the entire coil length.

Please add new claims 11-19 as follows:

- A3 Sub C2*
11. A coil winding method for winding a predetermined number of conductors (25, 27) to form a set of magnetically coupled coil pairs (W1, W3,; W2, W4,...) on a plurality of stator teeth (3) of a stator body (9) in a brushless direct current motor, each set of coil pairs (W1, W3, W2, W4,...) generating opposing magnetic fields in the plurality of stator teeth (3), the coil winding method comprising the steps of:
- a) in a first partial coil winding step, simultaneously winding  $2n$  conductors (25, 27) together onto a first plurality of stator teeth of said stator body;
  - b) selecting a first group  $n_1$  (25) of said  $2n$  conductors and assigning the first group  $n_1$  (25) to a first coil (W1) of said set of magnetically coupled coil pairs;
  - c) selecting a second group  $n_2$  (27) of said  $2n$  conductors and assigning the second group  $n_2$  (27) to a second coil (W3) of said set of magnetically coupled coil pairs; and,
  - d) repeating steps a) through c) until said predetermined number of conductors are wound onto said first plurality of stator teeth to form a first magnetically coupled coil pair (W1, W3) of said set of magnetically coupled coil pairs (W1, W3; W2, W4;...).

12. The method according to claim 11 further including:

- winding said predetermined number of conductors on a second plurality of stator teeth of said stator body (9) in said brushless direct current motor to form a second magnetically coupled coil pair (W2, W4) of said set of magnetically coupled coil pairs (W1, W3; W2, W4;...).

*Q3  
cont.*

13. The method according to claim 12 wherein the step of winding said predetermined number of conductors on said second plurality of stator teeth includes the steps of:

5           e) in a second partial coil winding step, simultaneously winding  $2n$  conductors together onto a second plurality of stator teeth of said stator body;

10           f) selecting a third group  $n_3$  of said  $2n$  conductors and assigning the third group  $n_3$  to a third coil (W2) of said set of magnetically coupled coil pairs;

g) selecting a fourth group  $n_4$  of said  $2n$  conductors and assigning the fourth group  $n_4$  to a fourth coil (W4) of said set of magnetically coupled coil pairs; and,

15           h) repeating steps e) through g) until said predetermined number of conductors are wound onto said second plurality of stator teeth to form said second magnetically coupled coil pair (W2, W4) of said set of magnetically coupled coil pairs (W1, W3; W2, W4;....).

14. The method according to claim 13 wherein; the first partial coil winding step includes simultaneously winding said  $2n$  conductors onto said first plurality of stator teeth different from said second plurality of stator teeth; and,

5           the second partial coil winding step includes simultaneously winding said  $2n$  conductors onto said second plurality of stator teeth different from said first plurality of stator teeth.

15. The method according to claim 14 wherein: the first partial coil winding step of simultaneously winding said  $2n$  conductors onto said first

*Art 3*

5 plurality of stator teeth includes simultaneously winding  
two conductors onto said first set of six stator teeth;  
and,

10 the second partial coil winding step of  
simultaneously winding said  $2n$  conductors onto said second  
plurality of stator teeth includes simultaneously winding  
two conductors onto said second set of six stator teeth.

16. The method according to claim 11 wherein:  
the step of assigning said first group  $n_1$  of said  
2n conductors includes, prior to performing each said at  
least one first partial winding step, connecting said  
5 first group  $n_1$  of said 2n conductors to a first electrical  
connection contact  $15_I$  on said stator body; and,

10 the step of assigning said second group  $n_2$  of  
said 2n conductors includes, prior to performing each said  
at least one first partial winding step, connecting said  
second group  $n_2$  of said 2n conductors to a second  
electrical connection contact  $15_{II}$  on said stator body.

17. The method according to claim 16 wherein:  
the step of assigning said first group  $n_1$  of said  
2n conductors further includes, after performing said each  
at least one first partial winding step, connecting said  
5 first group  $n_1$  of said 2n conductors to a third electrical  
connection contact  $15_{III}$  on said stator body; and,

10 the step of assigning said second group  $n_2$  of  
said 2n conductors further includes, after performing said  
each at least one first partial winding step, connecting  
said second group  $n_2$  of said 2n conductors to a fourth  
electrical connection contact  $15_{IV}$  on said stator body.

*Sub 3*

18. A stator made using the steps according to  
claim 11.